

珠穆朗玛地区伞形科植物的分类学研究

TAXONOMIC AND FLORISTIC NOVELTIES IN CHINESE UMBELLIFERAE FROM QOMOLANGMA REGIONS (XIZANG, THE HIMALAYAS)

M. G. Pimenov E. V. Kljuykov

(Botanical Garden, Moscow State University, Moscow 119899, Russia)

A. A. Tishkov

(Institute of Geography, Russian Academy of Sciences, Moscow 109017, Russia)

Abstract Five species new for Chinese flora have been shown on the basis of the gatherings from northern slopes of Qomolangma Feng (Everest Mt.). They belong to the genera *Physospermopsis*, *Pleurospermum*, *Pimpinella*, and *Schulzia*. A new genus, *Oreocomopsis* and its new species, *O. xizangensis*, have been described. Critical comments on these and some other South Xizang Umbelliferae are presented.

Key words Umbelliferae; Xizang; *Oreocomopsis*; *Physospermopsis*; *Pleurospermum*; *Pimpinella*; *Schulzia*; Floristic records

In August~October, 1991, a joint Chinese-Soviet glaciological expedition investigated the northern slopes of Qomolangma Feng in the Himalayas on elevations 4300~6100 m s. l. Being a member of the expedition, Dr. Arkadij A. Tishkov collected a lot of herbarium sheets, among them there is a small set of interesting plants of the Umbelliferae, partly appearing to be new species for Chinese flora.

Now, when three volumes of the critical treatment of Chinese Umbelliferae have been published, and the edition of "Flora of China" (in English) is in progress under the Chinese-American project, it is clear that China possesses a rich set of the Umbelliferae (over 550 species, including numerous endemics). In particular, there are 39 genera and 108~110 species of the family in Xizang (C. Y. Wu, 1986; Shan *et al.*, 1980). The evaluation of Chinese Umbelliferae has not been finished and the discovery of numerous new taxa in recent years allows to admit that there are a lot of undescribed taxa in it.

The most plant gatherings and vegetation study were made in following places: Rongbuk glacier and Rongbuk valley near Qomolangma Feng, 5100~5800 m s. l.;

Rongbuk Temple, 5000 m s. l. , Tingri and its vicinities, 4300~4800 m s. l. , intermountain hollow; Mt. Xixabangma, glaciers of N (August) and SE (September) slopes, 4600~6000 m s. l. , Nyalam and its vicinities, 4100~5100 m s. l. , Puqu valley, S and E slopes; Peiqu lake, deserts and steppes near lake, 4580~5000 m s. l.

The dominant types of vegetation in the region of investigation are subalpine steppes and shrubs (*Juniperus*, *Dasiphora*, *Rhododendron*), high-mountain deserts with *Ephedra gerardiana*, alpine meadows with *Leontopodium* spp., *Gentiana* spp., *Poa* spp., *Carex* spp., *Kobresia* spp., and nival communities with *Saxifraga*, *Saussurea*, and *Primula* species.

The region of the investigations of the above mentioned expedition is near the China-Nepal border. This is a rather popular place for botanical collections (see, for instance, Huang *et al.*, 1988). Some Umbelliferae—*Heracleum nyalamense* Shan et T. S. Wang, *Pachypleurum nyalamense* H. T. Chang et Shan, *Bupleurum alatum* Shan et Sheh, *Cortiella caespitosa* Shan et Sheh and other have their type localities in Qomolangma Feng region. The other were described from the neighbouring part of Nepal.

While checking Tishkov's collections, we naturally compared them in critical cases with the Umbelliferae treatments for Nepal (Cannon, 1979) and India (Mukherjee, 1978). Especially valuable information has been received from the critical study of Himalayan (mostly Nepalense) Umbels by Michel A. Farille (Farille, 1984; Farille *et al.*, 1985, 1984). This is no wonder because he investigated the Himalayan plants in Nepal, partly in the same floristic region as northern Qomolangma Feng slopes.

The total number of Umbelliferae species collected by A. Tishkov in the Himalayas is 10. Only three of them—*Sinodielsia tibetica*, *Pleurospermum hookeri* var. *thomsonii* and *Tongoloo achilleifolia* (*Pimpinella achilleifolia*) are included in "Flora Reipublicae Popularis Sinicae" (Shan *et al.*, 1992, 1985, 1979), the latter being added only in Supplementum (Pu *et al.*, 1992). Two species were reduced (*Trachydium subnudum*) or included under a non-priority name (*Pleurospermum apiolens*). The remaining five species appear to be unknown for Chinese flora, including a new taxon.

This new species seems to be closely related to *Oreocome stelliphora*, described by A. M. Cauwet-Marc and M. A. Farille from adjacent part of Nepal. But we could not agree with the colleagues whose new species belongs to the rather critical genus *Oreocome* Edgew. (type: *O. candolliana* Edgew. = *Cortia wallichiana* (DC.) Leute), regarded by us as monotypic. As Cauwet-Marc & Farille's Nepalese species and our new one from Xizang show some essential differences from *Oreocome* s. str., including carpological ones, we propose here to separate them to a new genus under the name *Oreocomopsis*, thus emphasizing its similarity with *Oreocome*.

Oreocomopsis Pimenov et Kljuykov, gen nov.

Genus nostrum *Oreocome* Edgew. simile est, sed involucri phyllis pinnatisectis (nec

nullis vel raro Paucis integris), involucelli phyllis linearibus vel filiformibus umbellulis duplo-triplo longioribus, mericarpiis commissuris angustis (non latis), Parenchymate mesocarpium elignescens bene differt.

Plantae perennes, radicibus, palaribus, caulibus solitariis, foliis, biquadri-pinnatisectis, lobis ultimis foliorum lanceolatis vel rhomboideis, margine dentatis. Involucrum phylla foliis caulinis similia, longe petiolata, laminis pinnatisectis vel raro integris. Involucelli phylla linearia vel filiformia, umbellulis duplo-triplo longiora, reflexa. Petala longe unguiculata, integra, apice acuminata et breviter incurva. Fructus ambitu ovales vel elongati, carpophoris ad basin bifidis. Stylopodia conica, stylopodia reflexa, breviter. Mericarpiis glabra, sectione transversali ambitu semiorbicularia vel vix dorso compressa, commissuris angustis, jugis prominentibus, alatis, omnibus aequalibus vel marginalibus latioribus. Vittae valliculares (1) 2~3, commissurales 4~6. Endospermium ventre planum vel vix emarginatum.

Typus generis: *O. xizangensis* Pimenov et Kljuykov

Species duae: 1. *O. xizangensis*; 2. *O. stelliphora* (Cauwet-Marc et Farille) Pimenov et Kljuykov, comb. nov. (*Oreocome stelliphora* Cauwet-Marc et Farille in *Candollea* 40: 549. 1985.)

Distribution: China (Xizang); Nepal.

O. xizangensis Pimenov et Kljuykov, sp. nov.

Species nostra *O. stelliphorae* ex Nepalia valde similis, sed ab ea radiis, radiolis, involucrum et involucelli phyllis rigidiuscule pilosis, umbellis multiradiatis (12~26 non 6~8), dentibus calycinis nullis, mericarpiis dorso vix compressis, jugis marginalibus vix dilatatis differt.

Planta perennis, videtur polycarpica, 25~30 cm alt., radice palari, incrassata, caule solitario, erecto, violaceo, basi 4~5 mm in diam., residuis brunneis fibrosis petiolorum emortuorum anni precedentis dense vestito, inferne terete, apice vix costato. Folia radicalia longe petiolata, petiolis 8~10 cm lg., sectione rotundatis, glabris, laminis ambitu rhomboideis, ad 12 cm lg. et lt., tri-quadri-pinnatisectis, segmentis primariis petiolulatis, terminalibus sessilibus, ambitu rhomboideis vel ovatis, 6~10 mm lg., pinnatisectis vel margine dentatis vel lobatis. Folia caulina nulla vel pauca (1~2), in parte caulis inferiora sita, radicalibus similia, sed petiolis vix abbreviatis, laminis diminutis, ambitu lanceolatis. Umbellae corymbosae, 6~10 cm in diam., 12~26-radiatae, radiis fructificatione inaequilongis, 4~9 cm lg., involucrum phyllis 6~10, radiis subaequilongis, longipetiolatis, laminis pinnatisectis vel bipinnatisectis. Umbellulae semiglobosae, densae, multiradiolatae, 50~60-florae, radiolis aequilongis, brevibus, ad 5 mm lg., complanatis, margine anguste alatis, involucelli phyllis numerosis filiformibus, apice integris vel bifidis, radiolis duplo-triplo longioribus, reflexis. Radii, radioli, involucrum involucellique phylla squamis et aculeolis rigidiusculis tecta. Dentes calycini nulli, petala sordido-violacea, 1. 2~2.3 mm lg., oblanceolata vel obovata, unguiculata. Mericarpiis dorso vix compressa, ovoidea, 6~6.5

mm lg., 3. 5 ~ 4 mm lt., jugis dorsalibus anguste alatis, marginalibus latioribus, commissuris angustis. Exocarpium e cellulis minutis leptodermaticis, mesocarpium parenchymatosum e cellulis leptodermaticis, in partibus distalibus jugorum e cellulis aerenchymatis membranarum vix lignescentibus, fissuratim porositis compositum. Endospermium ventre vix emarginatum.



Fig. 1 *Oreocomopsis xizangensis* Pimenov et Kljuykov

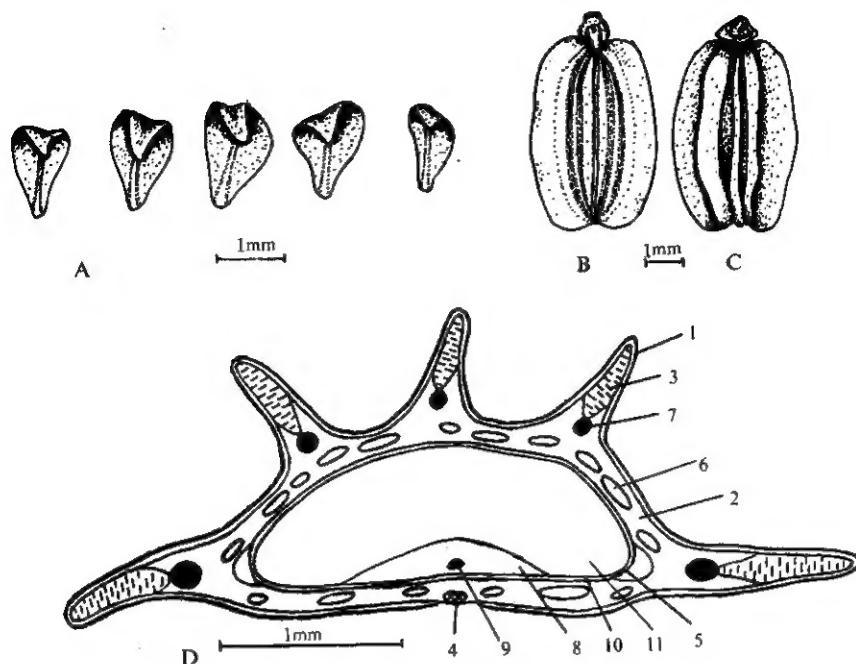


Fig. 2 *Oreocomopsis xizangensis* Pimenov et Kljuykov. A. Petals; B, C. mericarp (B. ventral view; C. dorsal view); D. TS of mericarp. 1. exocarp; 2. mesocarp; 3. aerenchyma; 4. sclerenchyma; 5. endocarp; 6. oil duct; 7. costal vascular bundle; 8. funicle; 9. funicular vascular bundle; 10. spermoderma; 11. endosperm

Xizang, China: alt. 5100~5300 m s. l., declivum septentrionale montis Qomolangma, prope monasterium Rongbuk, declivum shistosum moraenae recentis, 1991-09-10, A. Tishkov. s. n. (typus, MW, isotypus, E) (fig. 1, 2); ibid. prope pag. Nyalam, in valle fluvii Puqu, declivum occidentale, in rhododendreto, 1991-09-23, A. Tishkov s. n. (paratypus, MW)

Physospermopsis farillei P. K. Mukherjee & Constance in Edinb. J. Bot. **48**(1): 41. 1991.

C. Nepal: Lamjung Himat, alt. 4000~4150 m, au pied sud de col de Namun, vers, 1981-09-26. M. A. Farille 81.604 (typus, E). **Xizang, China:** the Himalayas, near Nyalam, alt. 4100~4300 m s. l., valley of river Puqu, Rhododendrons' belt, SE slope, 1991-09-16, A. A. Tishkov s. n. (MW).

Distribution: Nepal; China (Xizang).

A newly described species, separated from the little-known and rather confused Himalayas *P. hirsutula* (C. B. Clarke) Farille basing on the lack of pubescence of leaf midribs and other plant parts. Unfortunately, as noted by Norman (1938) and Farille (1985), *Trachydium hirsutulum* C. B. Clarke, the basionym of this species, was described on the grounds of extremely scanty incomplete material. We compared Tishkov's specimen

with the type sheet from Kew Herbarium ("Sikkim, Tungu, 3960~4270 m. October (?) Coll. J. D. Hooker"), and got convinced of their close resemblance in spite of the imperfection of type specimen. But it must be noted that the pubescence of leaf midribs, which was shown in protologue and even served as a basis of species name, is rather limited in the Chinese (Xizang) plant. M. Farille was the first to show the spread of the species in Nepal (high mountainous regions adjacent to Xizang); proceeding from his own collections, he enlarged and corrected the description of the species, transferred it to *Physospermopsis*. He did not say anything about the hairs on the leaf lamina surface. Though he was right to show the necessity of neotypification of *P. hirsutula*, Farille, however, did not indicate a neotype. Some of specimens cited by Farille have served as type materials (holotype and paratype) for the description of *P. farillei*. In addition, among paratypes, Mukherjee & Constance listed one sheet from Xizang ("Tibet side of Yak ha, Cooper 644" (E)). This first indicates that the species belong to Chinese flora, whereas *P. hirsutula* has never been showed that way.

Pleurospermum apiolens C. B. Clarke in Hook. f. Fl. Brit. India 2:705. 1879; Cannon in Hara & Williams, Enum. Flow. Pl. Nepal 2:188. 1979; Farille in Candollea 40:524. 1984. — *P. apiolens* var. *nipaulensis* Farille et Malla, l. c. :524, fig. 9. 1984. — *P. atropurpureum* Fu & Ho in Fl. Reip. Pop. Sin. 55(1):298, 161, tabl. 82. 1979; Z. H. Pan in C. Y. Wu Fl. Xizang. 3:426. 1986.

"Hab. Sikkim, Reg. Alp., alt. 3353~4267 m, Coll. J. D. Hooker" (holotypus, K?, isotypus, P!, G!). **Xizang, China:** the Himalayas, near Nyalam, alt. 4100~4300 m s.l., valley of river Puqu, Rhododendrons' belt, SE slope, 1991-09-19, A. A. Tishkov s. n. (MW, E).

Distribution: Sikkim; Nepal; China (Xizang).

This species seems to be of wide distribution in Nepal & Indian (Sikkim) Himalayas, having never been indicated for the adjacent China. But a related species, *P. pilosum* C. B. Clarke ex H. Wolff, was described from S. Xizang (Chumbi=? Yadoang). The latter differs from *P. apiolens* mainly in leaf, stem and umbel pubescence, having also more dissected (bipinnatifid) laminas. But leaf dissection varies also within *P. apiolens* M. Farille (1985) described var. *nipaulensis* Farille & Malla, and the material from Nyalam corresponds to this variety. However, the type specimens of *P. apiolens* from Sikkim have the same pattern of leaf dissection; thus the separation of var. *nipaulensis* has to be superfluous. On the other hand, Fu & Ho (1979) described *P. atropurpureum* which is identical to our material; the type localities of the latter species seems to be Nyalam (Nelamu Hsien in protologue, Naylam in Pu's checklist). As a result, Tishkov's specimen appears to be a topotype of *P. atropurpureum*, and we put the species of Fu & Ho in the synonymy of *P. apiolens*. As to var. *apiolens* in Farille's treatment concerned, it is extremely variable in the leaf lamina form; some of specimens cited by Farille are indistinguishable in this

character from *P. pilosum*. Furthermore, there are some gatherings intermediate both in pubescence and in leaf dissection between these two taxa. Probably *P. pilosum* is only an infraspecific taxon of *P. apiolens*. If it is so, it is no surprise that Farille demonstrated the distribution of *P. apiolens* in "Chumbi", a classical location of *P. pilosum*. Unfortunately, Farille himself did not expressed his point of view on *P. pilosum*.

M. Farille referred *P. apiolens* to *Pleurospermum* subgen. *Hymenolaena* (DC). Drude p. p. We believe *Hymenolaena* to be independent genus related to *Pleurospermum*, though separate. The characters of *P. apiolens* do not correspond to those of *Hymenolaena* s. str. (*H. candollei* and its close relative).

Pleurospermum stellatum (D. Don) Benth. ex C. B. Clarke in Hook. f. Fl. Brit. Ind. 2: 704. 1879; Mukherjee, Actes 2 Symp. Int. Ombell. (Perpignan): 61. 1978; Cannon in Hara & Williams, Enum. Flow. Pl. Nep. 2: 189 1979; Farille *et al.* in Candollea, 40: 525. 1985. — *Selinum stellatum* D. Don, Prodr. Fl. Nep. 185. 1825; DC. Prodr. 4: 165. 1830. — *Hymenolaena stellata* (D. Don) Lindl. in Royle, Ill. Bot. Himal. Mts. 233. 1835. — *H. govaniana*. DC. l. c. 246. 1830. — *Pleurospermum govanianum* (DC.) Benth. ex C. B. Clarke, l. c. 702. 1879. Nasir, Fl. West Pakist. 20: 144, fig. 42. 1972.

Nepal: Hamilton. Specimen may be no longer extant (Cannon, 1979), **Xizang, China**, Ichschangme, S slope, 1991-08-24, A. A. Tishkov s. n. (MW).

Distribution: Kashmir region; Kumaon; Nepal; China (Xizang) (here designated).

Without seeing a type material of *P. stellatum* (*Selinum stellatum*), which may have been lost, in synonymisation of the species we followed P. K. Mukherjee (1978), J. Cannon (1979) and M. Farille *et al.* (1985). In "FRPS" [vol. 55, pt. 1: 146 (1979)] only *P. govanianum* var. *bicolor* H. Wolff is included, but this variety seems to be another species as we believe on the basis of type and other materials' examination. Thus *P. stellatum* (= *P. govanianum* s. str.) appears to be a novelty for Chinese flora. Its including in *Pleurospermum* subgen. *Hymenolaena* (see Farille *et al.*, 1985) would be rather doubtful.

Pleurospermum hookeri C. B. Clarke

One of widely distributed species both in Chinese and southernmore Himalayas. Tishkov's collection includes six gatherings of the species:

Xizang, China: N slope of Qomolangma Feng, near Rongbuk Temple, alt. 5100 ~ 5300 m s. l., stony slope of new moraine, 1991-09-10, A. A. Tishkov s. n. (MW); ibidem, near Peiqu lake, alt. 4600 ~ 4900 m. s. l., in the valley of river Lauch, the grass-sedge stony steppe, on the lake terrace, 1991-09-07, A. A. Tishkov s. n. (MW); ibidem, near Nyalam, alt. 4100 ~ 4300 m s. l., valley of river Puqu, Rhododendrons' belt, SE slope, 1991-09-19, A. A. Tishkov s. n. (MW); ibidem, near Mt. Xixiabangma, alt. 5400 m s. l., stony S slope, on fine earth, 1991-08-26, A. A. Tishkov s. n. (MW);

ibidem, N slope Mt. Xixiabangma, alt. 5450 m s. l., rockstream, along brook from the glacier, 1991-08-24, A. A. Tishkov s. n. (MW); ibidem, S slope Mt. Xixiabangma, alt. 4450 m s. l., the bottom of valley, meadow with shrubs, among *Salix* and *Rhododendron*'s, 1991-09-22, A. A. Tishkov s. n. (MW).

Trachydium subnudum C. B. Clarke ex H. Wolff in Feddes Repert. 27:124. 1929. — *T. verrucosum* R. H. Shan et F. T. Pu. in Fl. Reip. Pop. Sin. 55(1):299, 203, tab. 108. 1979. F. T. Pu in C. Y. Wu Fl. Xizang. 3:445. 1986.

Xizang, China: Kambajong, 1903-09. D. Prain s. n. (syntypus, K); ibid. 1903-09-07, F. E. Younghusband 310 (syntypus, B, probably destroyed); ibid., 1903-07-26. F. E. Younghusband. 140 (LE!); near Tingri, 4300 m s. l., 1991-08-19 A. A. Tishkov s. n. (MW).

Distribution: China (Sichuan, Xizang); India (Ladak?)

This species, described from China, was omitted in "FRPS", a related species, *T. verrucosum* Shan & Pu, being described as a new one. Then Prof. Pu ("List...") has synonymized the latter with *T. subnudum*, in spite of its verrucose vs. glaber (*T. subnudum*, see Wolff, 1927) fruit surface. Other characters are similar in both species (we examined a topotype ("toposyntype") of *T. subnudum* from LE), and the surface features, as is known, can vary within the species. Being on the stage of very young fruits, Tishkov's specimen has wart-like outgrowths, and it can be referred in strict sense to *T. verrucosum* and in broad sense to *T. subnudum*. *T. lamondianum* Farille from Nepal is a species, closely related, or probably identical with *T. subnudum*.

Tongoloo achilleifolia (DC.) Pimenov & Kljuykov in Feddes Repert. 102(5~6): 383. 1991. — *Ptychotis achilleifolia* DC. Prodr. 4: 109. 1830. — *Pimpinella achilleifolia* (DC.) C. B. Clarke in Hook. f. Fl. Brit. Ind. 2:684. 1879; F. T. Pu, M. L. Sheh, S. L. Liou in Fl. Reip. Pop. Sin. 55(3):242. 1992. — *Vicatia achilleifolia* (DC.) P. K. Mukherjee in Bull. Bot. Surv. Ind. 24(1~4):43. 1983. — *Meeboldia achilleifolia* (DC.) P. K. Mukherjee & Constance in Edinb. J. Bot. 48(1):44. 1991.

Nepalia ad Kamaon, Wallich 568 (typus, K; isotypus, LE!). **Xizang, China:** near Nyalam, S slope in the shrubs. 1991-09-17, A. A. Tishkov s. n. (MW).

Distribution: Kumaon; Nepal; Sikkim region; China (Xizang).

As is clear from synonymy summary, the taxonomic position of the species is rather disputable. The latest references are to *Tongoloo* (Pimenov *et al.*, 1991) and *Meeboldia* (Mukherjee & Constance, 1991).

Meeboldia is a little-known, even enigmatic genus, described by H. Wolff (1924) as monotypic with *M. selinoides* H. Wolff as generitype. The type material is now probably unavailable. Recently Mukherjee & Constance argued that *Meeboldia* was congeneric with *Sinodielsia* (type, *S. yunnanensis*); the first generic name has a priority against the latter. In this case, *S. yunnanensis* is to be included in *Meeboldia*; the corresponding combination

(ined.) has been proposed by Constance & Pu ("List..."). Until now nobody has explicitly shown the place of the name *M. selinoides* within the reformed *Meeboldia*. As the species was described from the Himalayas (Kumaon, Naini), it can be identified in bitypic *Meeboldia* only with *M. achilleifolia*, in spite of some differences between Wolff's protologue and real characters of *M. achilleifolia*. But according to our multi-character classification (Pimenov et al., 1991) the latter is not closely related to *S. yunnanensis*, being nearer to *Tongoloo* species. If *M. selinoides* appears to be identical with *Ptychotis achilleifolia*, the latter being included in *Tongoloo*. *Meeboldia*'s priority is not against *Sinodielsia*, but *Tongoloo*. Then a lot of new nomenclatural combinations will be needed, the conservation of *Tongoloo* being probably preferable.

T. achilleifolia is not a new species for Chinese flora, being included (sub *Pimpinella achilleifolia*) in Supplementum of Vol. 55(3) (Pu et al., 1992).

Sinodielsia thibetica (H. Boissieu) Kljuykov & P. K. Mukherjee in Feddes Repert. 102(5~6):383. 1991—*Vicatia thibetica* H. Boissieu in Bull. Soc. Bot. Fr. 53:423. 1906.; C. C. Yuan in Fl. Reip. Pop. Sin. 55(1):185. 1979; ejusd. in C. Y. Wu Fl. Xizang. 3:438. 1986. — *S. yunnanensis* auct. non H. Wolff; Farille in Candollea 40(2):520. 1985.

Sichuan, China: "Thibet oriental, province de Betang, Yargong. haies, lieux ombrages et forêts. 1903-08-06, Soulie 3205C" (typus, P!). **Xizang, China:** near Tingri, 4300 m s. l., 1991-08-19, A. A. Tishkov s. n. (MW).

Distribution: Nepal; China (Xizang, Yunnan, Sichuan)

The species regarded has been transferred from *Vicatia* to *Sinodielsia* as a result of multi-character comparative study of a set of asiatic taxa including the types of both *Vicatia* and *Sinodielsia* (Pimenov et al., 1991). Being similar in some characters (calyx teeth, endosperm form) with *V. conifolia* DC., it possesses more affinity with *S. yunnanensis*, those being of no less value for Umbelliferae taxonomy. The differences between *V. thibetica* and all other species of *Vicatia* include life-form, stem pubescence (all true *Vicacias* are completely glaber), leaf dissection (presence of long petiolules of basal segments vs. sessile segments in true *Vicacias*), form of terminal lobes, some characters in umbel structure. The difficulties in *Meeboldia-Sinodielsia* nomenclature have been noted above; in any case *S. thibetica* is not close to *Tongoloo* (*Vicatia*, *Meeboldia*) *achilleifolia*.

Pimpinella pimpinellisimulacrum (Farille et Malla) Farille in Candollea 40(2):554. 1985. — *Similisinocarum pimpinellisimulacrum* Farille et Malla in Bull. Soc. Bot. Fr. 131, Letter bot. 1984(1):70. 1984.

Nepal: haute vallée de la Kali Gandaki, "spigolo" au SEE de Muktinath (Muktinath-Range, a nord de l'Annapurna), dans la lande à Rhododendron chaméphytiques, alt. 4500 m, 1981-09-18, M. A. Farille 81 422 (typus, KATH; isotypus, P, BM). **Xizang, China:** the Himalayas, near Nyalam, 4100 ~ 4300 m s. l., valley of river Puqu,

Rhododendrons' belt, SE slope, 1991-09-16, A. A. Tishkov s. n. (MW).

Distribution: Nepal; China (Xizang) (here designated).

A little-known species with rather confusing taxonomy and nomenclature. It was described as one of two species of the new genus *Similisinocarum* Cauwet-Marc & Farille, being not a generitype (Farille *et al.*, 1984). The genus has been typified by another Species, *S. normanianum* Cauwet-Marc & Farille. An year later M. Farille (Farille *et al.*, 1985) drastically reformed his new taxon, transferring *S. normanianum* to *Sinocarum*, and *S. pimpinellisimulacrum* to *Pimpinella*. It is rather strange that *Similisinocarum* was retained as a subgenus of *Pimpinella*, but not *Sinocarum*. Thus *Pimpinella* subgen. *Similisinocarum* (Cauwet-Marc & Farille) Farille with *S. pimpinellisimulacrum* as type is illegitimate. If regarding this subgeneric name not as a combination, but as a new name, it is illegitimate too, having no Latin diagnosis.

Schulzia dissecta (C. B. Clarke) Norman. in J. Bot. (London) **76**:231. 1938; P. K. Mukherjee in Actes 2 Symp. Int. Ombellif. :63. 1978. — *Trachydium dissectum* C. B. Clarke. in Hook. f. Fl. Brit. Ind. **2**:672. 1879.

Sikkim: Tungu, alt. 3962~4878 m, J. D. Hooker s. n. (typus, K!). **Xizang, China:** N slope of Mt., Qomolangma alt. 5100~5300 m s. l., near Rongbuk Temple, stony slope of recent moraine 1991-09-10, A. A. Tishkov s. n. (MW).

Distribution: Nepal; Sikkim; Bhutan; China (Xizang) (here designated). The indication for Pakistan (Nasir, 1972) is mistaken.

The species with an unclear taxonomic position. Its treatment as *Schulzia* is rather formal. Moreover, C. Norman, when proposing the transfer of *Trachydium dissectum* to *Schulzia*, had at hand a material from NW Himalayas, not belonging to *T. dissectum*. M. Farille (notes in K) referred the species to *Sinolimprichtia* H. Wolff [*S. dissecta* (C. B. Clarke) Farille, comb. n. ined.]. The issue will be a matter of a further special publication of ours.

New for China, the species also has not showed until now for Nepal and Bhutan, although there are a lot of gatherings from these countries [for instance, Nepal, Karnali Zone, above Ravanodu Tas. 1969-08-25, L. M. Bishop (K); Rolmelling Valley, 1981-10-24, M. A. Farille 81 777 (E); Bhutan, Sonona, 1971-09-25, Ramesh bedi 1180 (K); Chu distr., Gangyuol, 1984-09-27, I. W. J. Sinklair, D. J. Long 5376 (E)]

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